#### A QUIET FOURTH.

a People Rested on the Fourth-Many

ion of work at the mines and small in the matter of prizes, cially considering the way that a treated the people from that nger than three weeks ago.

actice. The difficulty will unubtedly be straightened out.

### LOCAL AND PERSONAL.

Chas. Widberg and Venda Swanson ere among the Amasa people that ent the Fourth at Norway.

A cow belonging to John Manox was d by fireworks on the Fourth. ibson has been at Marquette is on the U. S. Jury.

John Lundgren was at Stambaugh everal days this week.

Dr. and Mrs. Wm. McBurney and Irs. Morey and daughter Mabel Faust". Ali enjoyed it immensely.

### The Contract System.

(continued from mining page.) oles to be drilled is marked, hose that are drilled too deep, med. re not accepted by the foreman 4. Blasting is done only in ng hours, and is only stopped on faces. machines, clean out the holes, and leave them in shape for the ich time a record of the measurement is furnished to the contractors, and a duplicate is delivered at the office.

The blasting crew works between the hours of 1 a, m. and while by the system of paying victims of Consumption, Pueumonia 7 a. m., and its work consists in according to the linear progress loading and blasting the holes of the heading, three shifts may perfect healb. For Conghs, Colds, Fancy Imported and Domestic Wines, drilled by the miners. This be employed daily, and blasting since these are handled by a few which may be a matter of faction or relands money. Large picked men only. Another advantage of this method is that it involves no loss of time by miners and muckers (shovelers) in waiting for the working faces to become clear of smoke,

same as previously explained the contractors. with respect to the stopes. The ECONOMIC RESULTS OF THE number, direction and depth of the holes are outlined by the foreman or shift boss; but when controctors have become familiar with the ground, little direction of this kind is needed, the work system. In this connection I being practically the same each may add that the advantage day. The working hours are the thus gained by the employer is same as in stopes. On entering not loss to the workmen. The Yet Rocky Mountain Tea would drive the heading in the morning the miner now receives daily from them away. 35c. J. C.; Wilkinson.

up the horizontal bar supporting under the wage system. the machine-drill, and proceed Table I. Comparative Cost of Stoping. In effect at 12:01 Saturday, November 3, 1900 he Fourth was as uneventful here with the drilling of the holes in e could wish for. The big cele- the upper part of the face. held here a couple of weeks While drilling is carried on the took all the energy and money shovelers are removing the Blasting Amasa had to spare and so it was broken rock from the previous Explosives. . . . 0.100 rstood that there was to be no blast. By the time this has been arth." There was the usual sus- cleared away the machine-men a crowd congregated about are ready to take down the bar, A number went out of town, set it again in a horizontal posirystal Falls, Quinnesec and other tion near the floor of the drift s along the line. The rain which and drill bottom-holes or "liftn about 11 o'clock and continued ers." These being finished, the agnout the day kept everyone machine is taken down; the holes Explosives ..... 2.75

Cleve Berg indoors and he didn't are cleaned out, and a floor is out long. The shooting club laid for the shovelers. Everyto the Falls and took what little thing is then ready for the blasts there were offered there. The ing, which, as in other parts of s people showed themselves to be the mine, is performed between in interest the mine, is performed between in its performance in its performanc I and 7 a. m. by a special crew.

In headings where a certain number of holes have to be drilled before the whole set or ne misunderstanding has arisen difficulty with the hole system Tables I. and II. is the increased Houghton, Mich. ween the Amasa fire company and (i. e., the system of payment ac- speed with which shafts have and hose cart deals. Crystal drilling) is in making sure that have been driven. For it is is A. O. U. W. came up here on the contractors finish this work clear that, other condition rehasa's day and was awarded the flag before blasting time, in order maining the same, the output of parade. Someone went to Crystal that they may not have to lose the mines is governed by the From Crystal Falls.... lls and reported that the township working time during the blasting. and had decided not to give the flag and thus th t they may be kept account of the small number in the continuously employed. This ground in depth by sinking and For Crystal Falls and points at caused a report to be circulated creasing or decreasing the depth and cross-cutting the average ForCrystalFalls and Chicago. 5:05 p. m. re that the Crystal Falls people of the holes to be drilled; or (b) rate of advance per month has ould not loan the hose cart for by having one or two spare head- been increased from 50.8 ft. ings or stoping breasts in which under the wage system to 97.5 ft. contractors can utilize their extra under the contract system; this time. The latter expedient is to comparison being made on the be preferred, for the reason that basis of 2 shifts (4 men) per day. Frank Steddick and family spent to secure the best effect the depth of drill holes ought to be staking on a local staking on a Chas, Hughes and family and Capt, determined on other grounds sinking, calculating on a basis of drill them.

SYSTEM.

where the ore shoots are irregular show the rate of advance per in outline, and measurement by month to have been increased weight or volume of the ore from 27.2 ft. to the present averbroken cannot be easily made.

2. Within certain limits the number of machines in any one stope can be varied at will; and Great consternation was left by the ent to Crystal Falls last Saturday there is no difficulty such as friends of M. A. Hogarty, of Lexington, ing, dairying and diversified farming vening to attend the production of would arise from the necessity Ky., when they saw he was turning yel. Work can be found on farms, in

3. The system is extremely nd their approximate depth and different headings or stopes stomes and Liver taking two bottles I grass and other food for cattle and irection are indicated by the without any resultant confusion was wholly cared." A trial proves its natural shelter make this a natural oreman. Misplaced holes or in measuring the work perfor-

s entitled to be paid for; and the interval between 1 a. m. and n occasional check of this kind 7 a. m., and the miners and s all that is necessary to insure shovelers are not kept idle, waitood work. Drilling proceeds ing for the smoke and gas to be without interruption during work- cleared away from the working

SYSTEM blasting crew, before leaving the has been perfectly satisfactory Kniskern, General Passenger and Tucket lines working faces at t a. m. The in stopes. In headings, the number of feet of holes drilled is disadvantages, as compared red at the end of the shift, with the linear system of payment per running foot, are as

employed under the hole system; severest tests have been on hopeless effects a considerable saving in done at any time, thus often in- and Whooping Cough it is the quickest, the consumption of explosives, creasing the rate of advance, surest cure in the world. It is sold by supreme importance in opening bottles 50c and \$1.00. Trial bottles new ground, etc.

2. The difficulty, already discussed, of so laying out the work that the round of noles may be headings, the details of the completed in the two daily shifts, work are, in all essentials, the without an undue loss of time to

CONTRACT SYSTEM. The following tables show the saving effected by the substitution of the contract for the wage Chicago.

miners pick down the roof, put 84 to 84.25, as against \$3.50

Contract

Wage System Per ton.7 (Hole-) System Per ton." 80,750 0.115 Total ...... \$0.477 80,865 Table II.-Comparative Cost of Developmet Work.

Contract (Hole-) System Wage System Per foot.I Per foot. Drilling.......85.36 ) 88.36 Blasting ..... 1.. 0.68 2.88

\*Calculated from 49.849 tons of ore †Calculated from 13.818 tons of ore Maleulated from 1,244 feet of head-

ings driven.

Equally important with the agent or to this office. "round" can be blasted, the saving per foot or ton shown in time required to open new 30-day month, 555 ft. of work ADVANTAGES OF THE HOLE done under the contract system. compared with the last 200ft. 1. Its applicability in stoping, done under the wage system,

### White Man Turned Yellow.

of keeping separate the work done by each set of contractors.

| Dw. His skin slowly changed color, also numerous mills and on the rivers in summer and during the winter in the majority was a state of contractors. was treated by the best doctors, but elastic; that is, the same set of without benefit. Then he was advised cantractors can be employed in to try Electric Bitters, the wonderful matchless merit for all Stomach, Liver stock country. and Kidney troubles, Only 50c. Sold by J. C. Wilkinson, druggist. 400

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Chicago and all points

If young ladies think sores, pinples and red noses look well with a bridal veil and orange blossoms, it's all right. The shortest and most direct

### Copper Range Railroad Co.

### TIME TABLE.

Distance from Houghton.	No. B Min'd	N'th. No. 1 Pass.	STATIONS.	Soing. No. 2 Pass.	No. 4 Mixed.
	Dailly Ex- cept Sunday.	Daily.		Dally.	Dallo Ex- cept Squday.
41.6 88.2 81.8 27.1 25.0 21.6 17.4 11.6 8.2 5.1	4 90 4 50 5 05 5 45	2 15	MASS CITY. Belt Seaget Winona Stackpole Elin River Lakewood Ricetale Messner Atlantic [Houghton) t Hancock j	A. M. 11 00 110 50 110 29 810 17 f10 11 810 01 f 9 51 e 9 38 f 9 30 a 9 18 9 00 A. M.	P. M. 1 00 12 45 12 15 11 40 11 25 11 05 10 45 10 20 10 05 9 50 9 45 A. M.
	No. a	No. 1		No. 2	No. 4

Short Line to Copper Country. Trains make close connection to and from Calumet, Lake Linden, Dollar Bay and other points on Mineral Range and Calculated from 1.377.5 feet of head- H. & C. R'ys. For information in regard to rates, etc., apply to nearest

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CHICAGO & NORTH-WESTERN.

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AMASA.

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AND

### TIME TABLE.

In effect May 5th, 1901. Trains Leave Champion

For Montreal, the east \*3.37 a. m. and lower Michigan ... For Houghton and the

opper country ... .. \*9:45 a. m. For Ironwood, Hurley, Ashland and Duluth......

For Detroit and the east ... #11:35 a. m. For Houghton, Calumet, Doloth and the west......\*12:09 a. m.

### Trains leave Republic

For Houghton and the copy or country...... For Marquette ..... \*9:10 a. m. For Detroit and the least .... \*9:10 a. m. For Negaunee, Ishpeming and

... †3:50 p. m. Marquette .... For tickets, time tables and other information, apply to

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